



Tayyab Sajid

Objective

Seeking an exciting cooperative education internship in cybersecurity, blending my prowess in machine learning, full stack development, software engineering, robotics, and cybersecurity.

June - August 2024

About Me

I am a cybersecurity enthusiast with a keen interest in machine learning, AI, robotics and web & mobile development. Known for my rapid learning abilities, I thrive in environments that challenge me and offer opportunities to explore innovative tech solutions. I am dedicated to continually advancing my knowledge and staying at the cutting edge of technology.

PROJECTS

AI and Computer Vision based Football referee

Summer 2023

- Developed an AI algorithm that used object detection and image processing to figure out the position of football players and the ball and determine their positions and goals scored
- Technologies Used:** Python, OpenCV, OpenGL, AI, ML, Image Processing, Sterolabs SDK

NewBridge Pharmaceuticals' Eradicate App

Summer 2023

- Developed "Eradicate" with a university professor-led team for New Bridge Pharmaceuticals. The app aids H. Pylori patients with medication reminders and health info to enhance treatment adherence and well-being.
- Technologies Used:** Node.js, React Native, Express.js, MongoDB

Discoverify

Summer 2023

- Created a React.js and Express.js web app for retail purposes called "Discoverify", featuring a Tinder-like interface allowing users to swipe on preferred items. Securely collects user data and serves personalized ads and recommendations, powered by AWS Personalize, whilst also providing the cheapest price.
- Technologies Used:** Implemented RESTful APIs and AJAX for efficient data retrieval and management, Node.js, React.js, Express.js, PostgreSQL, Web-app penetration testing

+Numerous personal side projects

COMPETITION AWARDS

Ahoy Retalio Hyke Hackathon

July 2023

- 2nd place
- Created an AI powered web application used to find best prices of products across the internet, specifically tailored to the user.
- Technologies Used:** MERN Stack, AWS Personalize

Global Collegiate Penetration Testing Competition (CPTC)

October 2023

- 3rd place
- Participated in a penetration testing competition and successfully infiltrated a system, showcasing adeptness in cybersecurity tactics and techniques.
- Technologies Used:** Kali, Penetration testing, Practical ethical hacking

CryptoAI BUIDLER Hackathon

November 2023

- 3rd place
- Designed a comprehensive security solution tailored for Ether blockchain technology, adept at detecting fraudulent and suspicious activities while providing meticulous smart contract auditing capabilities.
- Technologies Used:** Ethereum simulation tools, machine learning models such as Random Forest and Support Vector Classification (SVC), Python, Django, GPT-4

Emirates Robotics Competition - Khalifa University

February 2024

- 2nd place
- Designed and programmed a robotic arm to autonomously detect and sort trash items into designated bins. Achieved 2nd place in competition against top-tier universities.
- Technologies Used:** ROS, Python, Inverse Kinematics Libraries, YOLOv8, OpenCV, OpenGL

WORK EXPERIENCE

AI Madena technical services business website

January 2023

- Worked with AI Madena technical services to craft two dynamic website spotlighting their services, portfolios, and pertinent details.
- Integrated interactive elements such as image galleries and contact forms to enrich user engagement.
- <https://cosmic-clank.github.io/almadenatechnicalservices>
- <https://cosmic-clank.github.io/almadenalandscape>

CONTACT ME

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EDUCATION

Bachelor of Science in Computing Security

Rochester Institute of Technology - Dubai

2022 - 2026

CGPA: 3.8

Honors: Deans list student, 40% academic scholarship

SKILLS

Languages

- Python
- Java
- C
- C++
- Assembly
- HTML, CSS
- Javascript
- Typescript
- SQL

Frameworks/Libraries

- Wireshark
- Cisco Packet Tracer
- Metasploit framework
- Burp Suite
- MongoDB, Express.js, React.js
- Node.js (MERN stack)
- React Native
- Databases: PostgreSQL, MySQL, SQLite, MongoDB
- Django
- Pygame
- Tkinter
- Machine Learning, AI tensorflow, scikit
- Computer Vision, OpenCV, YOLO
- Cloud Computing
- Cloud services, Amazon Web Services (AWS)
- Open AI API, Claude API

Other

- Practical Ethical Hacking
- Web application Penetration Testing
- Network Security
- Encryption
- ISO OSI, TCP/IP
- Robotics, ROS
- Linux
- GIT
- Big Data
- Data Science